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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,498	09/17/2001	Ching-Wei Chang	TAL/7146.114	9797

7590

05/16/2005

Timothy A. Long  
Chernoff, Vilhauer, McClung & Stenzel, LLP  
1600 ODS Tower  
601 S.W. Second Avenue  
Portland, OR 97204-3157

EXAMINER

GRANT II, JEROME

ART UNIT

PAPER NUMBER

2626

DATE MAILED: 05/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/955,498

Applicant(s)

CHANG, CHING-WEI

Examiner

Jerome Grant II

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☒ Claim(s) 9 and 10 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

JEROME GRANT II  
PRIMARY EXAMINER

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 10/28/04 and 1/2/02
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

Art Unit: 2626

Detailed Action

1.

Claim 4 recites "said second dot" in paragraph (b). Then in paragraph (d), there is recitation of a third dot but there is not earlier recitation of either the second or third dot. There is insufficient antecedent basis for this limitation in the claim.

2.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Art Unit: 2626

Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Hubina et al.

With respect to claim 1, Hubina teaches a method of rendering a halftone cell (see figure 2a and halftone masks at the top of figure 3) comprising a plurality of pixels, the method comprising the steps of: rendering a first pixel (P11) at a first intensity; and rendering second pixel (P12) at a second intensity, said second intensity being greater than a minimum intensity, less than a max intensity, and substantially different from the first intensity, see figure 5.

With respect to claims 2 and 7, Hubina teaches the claimed subject matter as shown by figure 2a. Fig 2a shows rgb pixels displaced vertically and horizontally from other color pixels.

With respect to claims 3 and 8, Hubina teaches the claim limitation in that figure 6 shows where G is the second intensity and R is the first intensity.

With respect to claim 4, Hubina teaches rendering a halftone cell comprising an array of dots, a dot comprising at least one pixel, the method comprising the steps of :

Rendering a first dot PI1 at a first intensity (102 and 12); rendering a dot pixel (PI2) at substantially said first intensity, said second dot being displaced vertically and horizontally in the array from the dot. This is shown substantially by fig. 2a. Hubina further teaches rendering a dot pixel at a second intensity, said second intensity being greater than a minimum intensity less than a max intensity, (see figure 6) and substantially different from the first intensity and rendering a fourth intensity (from the color W of figure 2b) the fourth dot being displaced vertically and horizontally relative to the third (PI3).

With respect to claim 5, this limitation is taught with respect to figure 6 and the distance between PI1 and PI3.

With respect to claim 6, Hubina teaches the rendering of a halftone image with a plurality of cells comprising the steps of : sampling an intensity of an original image at a plurality of locations (optics 102 and sensor 12); rendering a first pixel (PI1) at a first intensity, said first intensity relating a location and intensity of the first sample. This limitation is clearly shown in figure 5. Hubina teaches rendering a second pixel PI2 of halftone cell at a second intensity in response to a second sample, said second intensity

in relating a location and an intensity of the second sample and being greater than a minimum intensity, less than a max intensity and different from the first. See figures 5 and 6.

### **3. Objected Claims**

Claims 9 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2626

4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 571-272-7463. The examiner can normally be reached on Mon.-Thurs. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams, can be reached on 571-272-7471. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



J. Grant II

09/955, 498

Examiner's Figure 5

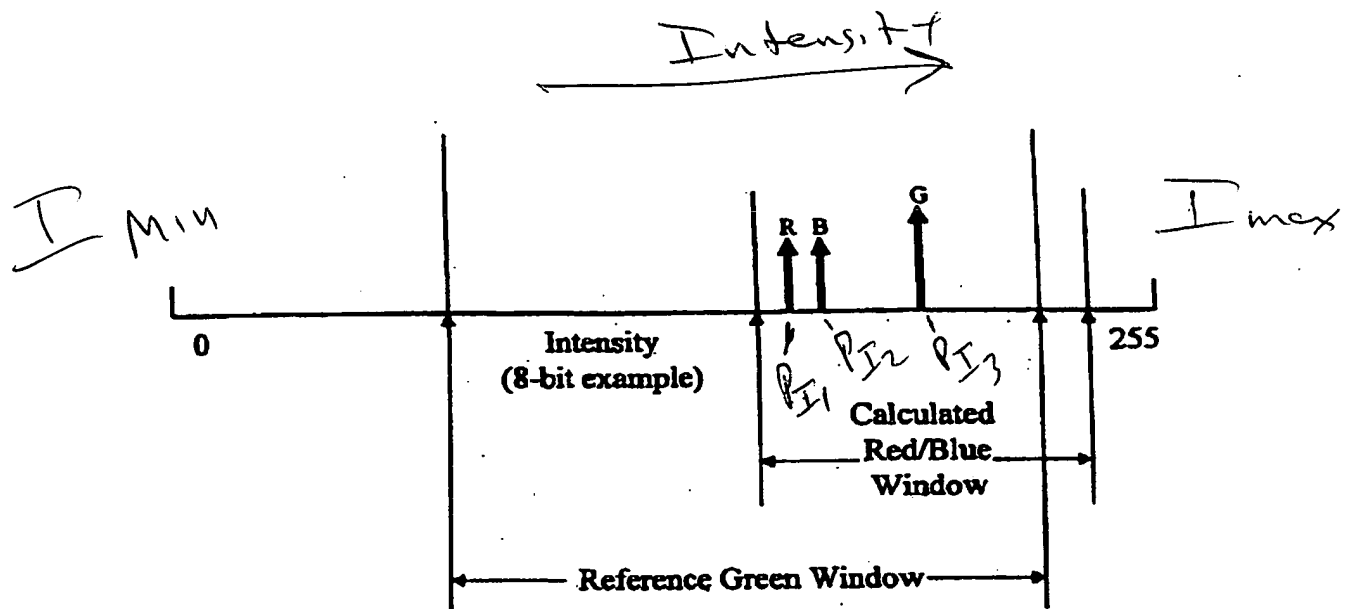


Figure 5



09/955,498

Examiners Fig. 6

$$P_{I3} - P_{I1} \sim 127$$

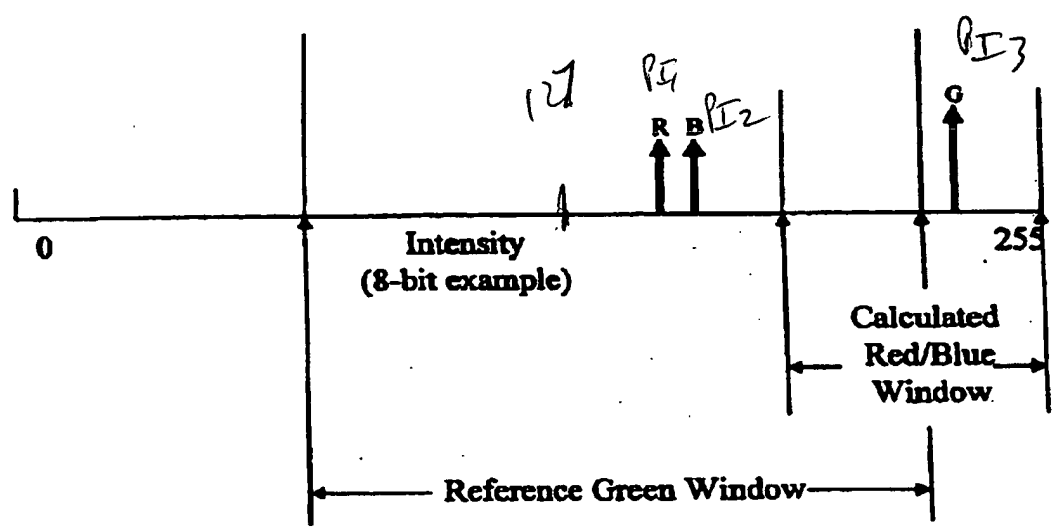


Figure 6